

Application Serial No. 09/936,273
Final Amendment dated March 13, 2006
Reply to Final Office Action dated December 12, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (canceled)

Claim 21 (currently amended): A method for adapting the operating mode of a multi-mode codec to changing transmission conditions in a CDMA mobile transmission network, comprising: whichever of two mobile stations (MS1; MS2) encounters a change in the transmission quality on its air interface, which causes it to change its codec operating mode, induces the other mobile station (MS1; MS2) in the case of a transmission between two mobile stations, or a transcoder in the case of a transmission from a mobile station to a public switching telephone network, to likewise change the codec operating mode; and having a radio network controller RNC instruct a mobile station MS via a signaling channel between the radio network controller RNC and the mobile station MS to use a different codec operating mode and to specify the time of change, once the radio network controller RNC has decided to change the codec operating mode.

Claim 22 (currently amended): The method according to Claim 21, including changing to a more robust codec operating mode whenever the transmission conditions on one side of transmission segments involved in the ~~process~~ method deteriorate.

Claim 23 (currently amended): The method according to Claim 21, including changing to a less robust codec operating mode whenever the transmission conditions on all transmission segments involved in the ~~process~~ method improve.

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Claim 24 (previously presented): The method according to Claim 21, including having the decision to change the codec operating mode originate in radio network controllers RNC of the mobile transmission network.

Claim 25 (previously presented): The method according to Claim 21, including having radio network controllers RNC select a physical transmission channel to be used when there is a change of the codec operating mode.

Claim 26 (currently amended): The method according to Claim 21, including having base stations Node-Bs inform an associated radio network controller RNC regarding the quality of the connection in an uplink, transferring measurement values as measured by the base station to a mobile station MS using the Node-Bs of the radio network controller in order for the mobile station to decide whether to change the codec operating mode, and wherein the mobile station MS using the Node-Bs of the radio network controller RNC decides on a change of codec operating modes based on measurement values.

Claim 27 (currently amended): The method according to Claim 21, and using outband signaling between a radio network controller RNC and ~~an associated mobile~~ a mobile station MS associated therewith regarding a change in codec operating mode.

Claim 28 (previously presented): The method according to Claim 21, including having inband signaling among radio network controllers RNC involved or between a radio network controller RNC and the transcoder to exchange information on the codec operating mode being used.

Claim 29 (previously presented): The method according to Claim 28, including having the inband signaling use specific fields of a transmission frame, where a first field CMI specifies which codec operating mode is used for the transmission frame and wherein a second field BRI identifies a change in transmission conditions of a relevant transmission segment.

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Claim 30 (previously presented): The method according to Claim 21, including having differing codec operating modes in place simultaneously in a connection with two duplex directions.

Claims 31-33 (canceled)

Claim 34 (currently amended): The method according to Claim 21, including having a radio network controller RNC receive transmission frames with voice signals in a new codec operating mode from [[the]] an associated mobile station MS, and the radio network controller RNC transmitting said transmission frames to other radio network controllers involved in the transmission.

Claim 35 (new): A method for adapting the operating mode of a multi-mode codec to changing transmission conditions in a CDMA mobile transmission network, comprising: whichever of two mobile stations (MS1; MS2) encounters a change in the transmission quality on its air interface, which causes it to change its codec operating mode, induces the other mobile station (MS1; MS2) in the case of a transmission between two mobile stations, or a transcoder in the case of a transmission from a mobile station to a public switching telephone network, to likewise change the codec operating mode;

having a radio network controller RNC instruct a mobile station MS via a signaling channel between the radio network controller RNC and the mobile station MS to use a different codec operating mode and to specify the time of change, once the radio network controller RNC has decided to change the codec operating mode; and

specifying the time of change by means of frame identification between the radio network controller RNC and the mobile station MS.

Claim 36 (new): A method for adapting the operating mode of a multi-mode codec to changing transmission conditions in a CDMA mobile transmission network, comprising: whichever of two mobile stations (MS1; MS2) encounters a change in the transmission quality on its air interface, which causes it to change its codec operating mode, induces the other mobile station

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(MS1; MS2) in the case of a transmission between two mobile stations, or a transcoder in the case of a transmission from a mobile station to a public switching telephone network, to likewise change the codec operating mode;

having a radio network controller RNC instruct a mobile station MS via a signaling channel between the radio network controller RNC and the mobile station MS to use a different codec operating mode and to specify the time of change, once the radio network controller RNC has decided to change the codec operating mode; and

having the mobile station MS transmit in a new operating mode from the specified time of change.